## **SMM 1792 L** High Contrast Gray Scale Monitor



- CRT with anti-reflective and anti-static panel and dispenser cathode for long CRT life
- Automatic calibration of black level without external sensor,
   20 minutes after power on and every 12 hours
- Constant Gamma for equal gray scale performance in multi monitor configurations, also over complete lifetime of CRT
- High contrast and brightness/ high resolution CRT, up to 175 fL (600 cd/m²), front-of-screen luminance through 27 % total transmission
- 1600 x 1280 addressability standard
- Scan range of 30 to 92 kHz horizontal and 50 to 120 Hz vertical
- Microprocessor control of all internal monitor functions
- Front panel brightness, contrast and geometry controls are standard and can be disabled for calibrated diagnostic applications
- Front panel control for image rotation
- Ambient light sensor for automatic contrast control

## display

Siemens SMM-Series of gray scale monitors is designed to meet the demanding requirements of Medical Diagnostic Imaging.

The monitor features high resolution at high luminance with low background levels for wide dynamic range.
The internal microprocessor controls all

electrical and magnetic monitor func-

tions, and continuously adjusts drive

levels to maintain constant luminance during warm up and over long life of the CRT depending on the environmental light conditions. For each format stored, the dynamic focus ensures optimal sharpness at any point of the screen. All formats are stored internally, including a full set of screen settings for each. Formats are selected and modified through the RS 232 serial port.



## **SMM 1792 L**

## High Contrast Gray Scale Monitor

Technical Data	
Power requirements Input voltage  Power frequency Power consumption Power factor control Power saving	94 to 264 V Wide range power supply 47 to 63.6 Hz Approx. 150 W According to EN 61 000 According to VESA DPMS
CRT specifications Size  Deflection angle Light transmission Phosphor type Surface  Gun system Focus	44 cm / 17", flat & square (landscape) 90° 27 % P45, cadmium free Multicoated conductive panel (AR/AS) Dispenser cathode (long life) Static and dynamic
General performance Horizontal frequency Vertical frequency Formats	30 to 92 kHz 50 to 120 Hz 19 max., self recognizing and auto-scaling
Video amplifier, inputs Type  Connectors Impedance Video level Sync level	High contrast, high resolution supports 280 MHz pixel-clock BNC type 75 $\Omega$ 0.75 to 1.2 $V_{pp}$ 0.1 to 0.6 $V_{pp}$
Front panel controls Controls Geometry Ambient light sensor	Power on/off, contrast, brightness H/V-phase, H/V-amplitude, pin & barrel, image rotation For automatic contrast control

Display performance Display area (W x H) in mm Non-linearity Raster stability Maximum luminance  High voltage regulation	321 x 241 < 2 % 0.05 mm max. swim & jitter ≥ 175 fL @ 0.7 V <sub>pp</sub> input signal (at 27 % total trans- mission) 0.2 % max. size change
Operation conditions Temperature - Operating - Storage Humidity, rel Operating - Storage	10 °C to 35 °C, up to 40 °C with some restrictions -25 °C to +70 °C 20 % to 80 % 20 % to 80 %
Mechanical specifications Dimensions (W x H x D) in mm Weight	407 x 407 x 456 Approx. 24 kg
Approvals Safety EMC - Emission Others	EN 60 950, UL 1950, cUL, DHHS  FCC Class A, MPR II, EN 60 601-1-2 Class B  CE Mark Medical Device Class I EN ISO 9001, EN ISO 13 485 certified plant
Options - OEM versions - Other phosphors available Miscellaneous	Customer specific labeling available
Ordering data SMM 1792 L	Order No. 6GF6320-1BB01